

WHAT IS CLAIMED IS:

1. An optical receptacle for being attached to a printed board and to which an optical plug can be connected comprising:

a tubular main housing; and

5 a socket housing which is inserted and attached to the main housing;

wherein the main housing has an elastic locking part which protrudes from the outer circumference surface and locks onto the printed board; and

the socket housing has a locking slotted pin which protrudes from the outer circumference surface and locks onto the printed board.

10 2. The optical receptacle according to claim 1, wherein the main housing comprises a connection opening part to which the optical plug is inserted, and

within the main housing comprises an elastic claw which extends towards the connection opening part; and

15 the elastic claw holds the optical plug within the main housing by engaging with the optical plug inserted from the connection opening.

3. The optical receptacle according to claim 1 or 2, wherein locking holes into which the elastic locking part of the main housing and the locking slotted pin of the socket housing are inserted respectively are formed on the printed board.

20 4. The optical receptacle according to any one of claims 1 to 3, wherein the socket housing is capable of storing optical elements, formed from synthetic resin material containing conductive filler, is electrically conductive between the optical element and the printed board.

5. The optical receptacle according to claim 4, wherein the conductive filler is a carbon filler.

25 6. The optical receptacle according to any one of claims 3 to 5, wherein the elastic locking part has a first elastic locking part and a second elastic locking part; and

the first elastic locking part and the second elastic locking part, respectively comprise a main body which protrudes from the main housing and extends linearly, and a locking part which protrudes from the main body which is locked to the locking hole of the printed board; and

5 the locking parts are positioned so as to face each other.

7. The optical receptacle according to any one of claims 3 to 5, wherein the elastic locking part has a first elastic locking part and a second elastic locking part, and

10 the first elastic locking part and the second elastic locking part respectively comprise a main body which protrudes from the main housing and extends linearly, and a locking part which protrudes from the main body and is locked to the locking hole of the printed board; and

the locking parts are positioned facing in the opposite direction of each other.

15 8. The optical receptacle in claim 5 or 6, comprising a plural of the elastic locking parts, and the direction in which the plurality of first elastic locking parts are aligned and the direction in which the plurality of second elastic locking parts are aligned in parallel.